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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2006

SUBJECT: PAPER I: BASIC SCIENCES

Monday, April 03, 2006

Time: 3 Hours

Max. Marks: 100

✍ **Answer all questions.**

1. Describe the arches of the foot and factors maintaining the integrity of the arches of the foot. Discuss in detail the various causes of pes planus.

(30 marks)

2. Describe the anatomy of ilio-tibial band. Enumerate the deformities produced by contracture of ilio-tibial band in post polio residual paralysis. How would you treat these deformities?

(30 marks)

3. Write short notes on:

3A. Spina bifida occulta.

3B. SACH foot.

3C. Bone graft substitutes.

3D. Measures to be followed to prevent hepatitis and HIV infections in the operation theatre.

(10×4 = 40 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

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MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2006

SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, April 04, 2006

Time: 3 Hours

Max. Marks: 100

✍ Answer all questions.

1. Describe different stabilizing structures of the shoulder joint. What are the mechanism of injury and clinical features of anterior dislocation of the shoulder? Discuss briefly the methods of closed reduction of anterior dislocation of the shoulder.
(30 marks)
2. Describe the anatomy of the ankle joint in relation to the injuries around the ankle. How do you classify ankle injuries? Discuss the management of Dupuytren's fracture.
(30 marks)
3. Write short notes on:
 - 3A. Shenton's line.
 - 3B. Seat belt injury.
 - 3C. Volkman's ischaemic contracture.
 - 3D. Radial neck fracture in children.

(10×4 = 40 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

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MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2006

SUBJECT: PAPER III: GENERAL ORTHOPAEDICS

Wednesday, April 05, 2006

Time: 3 Hours

Max. Marks: 100

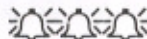
Answer all questions.

1. Classify bone tumours. Discuss the differential diagnosis and management of a swelling of the upper third of tibia in a 15 year old boy.
(30 marks)

2. Describe the biomechanics of claw hand. Discuss the principles behind different surgical correction of claw hand deformity.
(30 marks)

3. Write short notes on:
 - 3A. Congenital vertical talus.
 - 3B. Barlow's test.
 - 3C. Seronegative arthropathies.
 - 3D. Forward bending test.

(10×4 = 40 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

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MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2006

SUBJECT: PAPER IV: RECENT ADVANCES

Thursday, April 06, 2006

Time: 3 Hours

Max. Marks: 100

Answer all questions.

1. Discuss the anatomy, mechanism of injury and clinical features of medial meniscus injury. What are the advantages and limitations of arthroscopic meniscectomy?
(30 marks)

2. Discuss different causes of avascular necrosis of the femoral head. Discuss the investigations and the principles of management of a 35 years old man with bilateral avascular necrosis of femoral heads.
(30 marks)

3. Write short notes on:
 - 3A. Bone morphogenetic protein.
 - 3B. Stress shielding.
 - 3C. Tumoral calcinosis.
 - 3D. Autologous bone marrow injection.

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(10×4 = 40 marks)

